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**EXAMINER** 

CLARK, SHEILA V

## NOTICE OF ALLOWANCE AND FEE(S) DUE

24247

TRASK BRITT P.O. BOX 2550

7590

SALT LAKE CITY, UT 84110

12/01/2004

12/01/200

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PAPER NUMBER

ART UNIT

DATE MAILED: 12/01/2004

1	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/874,631	06/05/2001	Ow Chee Moon	4368US (99-0959)	5108

TITLE OF INVENTION: FLEXIBLE BALL GRID ARRAY CHIP SCALE PACKAGES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$40	\$0	\$40	03/01/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

## HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## ART B - FEE(S) TRANSMITTAL

Complete and send this form, together wis applicable fee(s), to: Mail

Mail Stop ISSU EE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)  24247 7590 12/01/2004  TRASK BRITT P.O. BOX 2550 SALT LAKE CITY, UT 84110  Certificate of Mailing or transmission.  Certificate of Mailing or transmission.  I hereby certify that this Fee(s) Transmittal is being deposited with the Unit State Spots struck with sufficient postage for first class mail in an envelor addressed to the Mail Stop ISSUE FEE address above, or being facsim transmitted to the USPTO (703) 746-4000, on the date indicated below.  APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO.  09/874,631 06/05/2001 Ow Chee Moon 4368US (99-0959) 5108  TITLE OF INVENTION: FLEXIBLE BALL GRID ARRAY CHIP SCALE PACKAGES  APPLN. TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(s) DUE DATE DUE nonprovisional NO \$40 S0 \$40 03/01/2005  EXAMINER ART UNIT CLASS-SUBCLASS  CLARK, SHEILA V 2815 257-701000  1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563).  Change of correspondence address or indication of "Fee Address" (37 CFR 1.563).  Change of correspondence address or indication of "Fee Address" (37 cragins) and the names of up to ageinst registered attorn to a member a registered attorney or agents) and the names of up to ageinst registered attorney or agents of up to ageinst registered attorney or agents of up to ageinst registered attorney or agents of up to a registered attorney or agents of up to ageinst or agents of up to a registered attorney or agents of up to ageinst or agents of up to a registered attorney or agents of up to a registered attorney.	NSTRUCTIONS: This for appropriate. All further corn adicated unless corrected be maintenance fee notification.	respondence including the release of	mitting the ISSUE atent, advance ord in Block 1, by (a)	FEE and PU ers and notific specifying a r	new correspondence address;	red). Blocks 1 through 5 sh ill be mailed to the current of and/or (b) indicating a separ	rate "FEE ADDRESS" for
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I hereby certify that this PE(e), Transmittal is being deposited with the United States Portal Server with sufficient postings for first class mail in an envelope addressed to the Melin Server with sufficient postings for first class mail in an envelope addressed to the Melin Server with sufficient postings for first class mail in an envelope addressed to the Melin Server with sufficient postings for first class mail in an envelope addressed to the Melin Server with sufficient postings for first class mail in an envelope addressed to the Melin Server with sufficient postings for first class mail in an envelope addressed to the Melin Server with sufficient postings for first class mail in an envelope addressed to the Melin Server with sufficient postings for first class mail in an envelope addressed to the Melin Server with sufficient postings for first class mail in an envelope addressed to the Melin Server with sufficient postings for first class mail and the sufficient postings of the sufficient posti	24247 75	90 12/01/2004			have its own certificate	of mailing or transmission.	
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Address form PTO/SB/122) attached.    Tee Address' indication (or "Fee Address" Indication form PTO/SB/17, Rev 03-02 or more recent) attached. Use of a Customer Number is required.    Assigne Name And Residence Data to Be Printed Data and the names of up to 2 registered attorney or agent) and the names of up to 2 registered pattern attorneys or agents. If no name is 3 registered attorney or agents. If no name is 2 registered attorney or agents. If no name is 3 registered attorneys or agents. If no name is 3 registered attorneys or agents. If no name is 3 registered attorneys or agents. If no name is 3 registered attorneys or agents. If no name is 3 registered attorneys or agents. If no name is 3 registered attorneys or agents. If no name is 3 registered attorneys or agents. If no name is 3 registered attorneys or agents. If no name is 3 registered attorneys or agents. If no name is 3 registered attorneys or agents. If no name is 3 registered attorneys or agents. If no name is 3 registered attorneys or agents. If no name is 3 registered attorneys or agents. If no name is 3 registered attorneys or agents. If no name is 3 registered attorneys or agents. If no name is 3 registered attorneys or agents. If no name is 3 registered attorneys or agents. If no name is 3 registered attorneys or agents. If no name is 3 registered attorneys or agents. If no name is 3 registered attorney or agents. If no name is 3 registered attorney or agents. If no name is 3 registered attorney or agents. If no name is 3 registered attorney or agents. If no name is 3 registered attorney or agents. If no name is 3 registered attorney or agents. If no name is 1 registered attorney or agents. If no name is 1 registered attorney or agents. If no name is 1 registered attorney or agents. If no name is 1 registered attorney or agents. If no name is 1 registered attorney or agents. If no name is 1 registered attorney or agents. If no name is 1 registered attorney or agents. If no name is 1 registered attorney or agents. If no name is 1 registered	CFR 1.363).			(1) the nam	es of up to 3 registered pater	nt attorneys	
Tree Address' indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.  3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)  PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.  (A) NAME OF ASSIGNEE  (B) RESIDENCE: (CITY and STATE OR COUNTRY)  Please check the appropriate assignee category or categories (will not be printed on the patent):   Individual   Corporation or other private group entity   Government of the fee(s) are enclosed:   A check in the amount of the fee(s) is enclosed.   Payment of Fee(s):   A check in the amount of the fee(s) is enclosed.   Payment by credit card. Form PTO-2038 is attached.   Payment by credit card. Form PTO-2038 is attached.   The Director is hereby authorized by charge the required fee(s), or credit any overpayment peposit Account Number   Cenclose an extra copy of this form).  5. Change in Entity Status (from status indicated above)   a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.   b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).  The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other part interest as shown by the records of the United States Patent and Trademark Office.	Address form PTO/SB/1	22) attached.	Correspondence	(2) the nam	e of a single firm (having as	a member a 2	
PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.  (A) NAME OF ASSIGNEE  (B) RESIDENCE: (CITY and STATE OR COUNTRY)  Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Governments.  4a. The following fee(s) are enclosed:    Issue Fee	PTO/SB/47; Rev 03-02	tion (or "Fee Address" Indic or more recent) attached. Us	ation form e of a Customer	registered a 2 registered	ttorney or agent) and the nan patent attorneys or agents. If	ies of up to	
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Please check the appropriate assignee category or categories (will not be printed on the patent):	DI DAGE MOTE, Unlage	on assigned is identified b	elow no assignee	data will appe	ar on the patent. If an assign	nee is identified below, the d	locument has been filed for
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□ Issue Fee □ A check in the amount of the fee(s) is enclosed. □ Publication Fee (No small entity discount permitted) □ Advance Order - # of Copies □ The Director is hereby authorized by charge the required fee(s), or credit any overpayment Deposit Account Number (enclose an extra copy of this form).  5. Change in Entity Status (from status indicated above) □ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. □ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).  The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.  NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other part interest as shown by the records of the United States Patent and Trademark Office.  Date  Date □ Definition Fee (if any) or to re-apply any previously paid issue fee to the application identified above.  NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other part interest as shown by the records of the United States Patent and Trademark Office.	Please check the appropriate	e assignee category or category	ories (will not be pr	inted on the pa	tent): Individual I C	Corporation or other private gr	oup entity Government
Payment by credit card. Form PTO-2038 is attached.  Advance Order - # of Copies	4a. The following fee(s) are	enclosed:	41		``		
Advance Order - # of Copies Deposit Account Number (enclose an extra copy of this form).  5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27 b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).  The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other part interest as shown by the records of the United States Patent and Trademark Office.  Date	☐ Issue Fee			_	• •		
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The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.  NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other part interest as shown by the records of the United States Patent and Trademark Office.  Authorized Signature							
Authorized Signature Date	a. Applicant claims S	SMALL ENTITY status. See	37 CFR 1.27.				
	The Director of the USPTO NOTE: The Issue Fee and I interest as shown by the rec	) is requested to apply the Ist Publication Fee (if required) cords of the United States Pa	sue Fee and Publica will not be accepte tent and Trademark	tion Fee (if any d from anyone Office.	y) or to re-apply any previous other than the applicant; a re	sly paid issue fee to the applic gistered attorney or agent; or	ation identified above. the assignee or other party in
	Authorized Signature				Date		
This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to proceed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing,					o obtain or retain a benefit by	the public which is to file (an	nd by the USPTO to process

an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/874,631	06/05/2001	Ow Chee Moon	4368US (99-0959)	5108
24247	7590 12/01/2004		EXAM	INER
TRASK BRITT		CLARK, SHEILA V		
P.O. BOX 2550 SALT LAKE CITY, UT 84110			ART UNIT	PAPER NUMBER
SALI LAKE CI	11,01 64110		2815	
			DATE MAILED: 12/01/200	4 .

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 17 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 17 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)
3		MOON ET AL.
Notice of Allowability	09/874,631 Examiner	Art Unit
•	S. V. Clark	2815
	S. V. Clark	2010
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS nerewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED 5) or other appropriate comi RIGHTS. This application is	munication will be mailed in due course. THIS
. $igtimes$ This communication is responsive to $\underline{\textit{the communication}}$	filed 9-24-04.	
2. X The allowed claim(s) is/are 1-33,35,36,38-42,52 and 53.		
3. $igotimes$ The drawings filed on <u>01 July 2002</u> are accepted by the $f R$	Examiner.	
4.   Acknowledgment is made of a claim for foreign priority  a)   All b)   Some* c)   None of the:  1.   Certified copies of the priority documents ha  2.   Certified copies of the priority documents ha  3.   Copies of the certified copies of the priority of the priori	ve been received. ve been received in Applica	ition No
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5.   A SUBSTITUTE OATH OR DECLARATION must be substituted in the substitute of the substitu	NMENT of this application.	
5. A SUBSTITUTE OATH OR DECLARATION finds be said INFORMAL PATENT APPLICATION (PTO-152) which g	ives reason(s) why the oath	n or declaration is deficient.
<ol><li>CORRECTED DRAWINGS ( as "replacement sheets") m</li></ol>	nust be submitted.	
(a) ☐ including changes required by the Notice of Draftspo		riew (P1O-948) attached
1) hereto or 2) to Paper No./Mail Date		t or in the Office action of
(b) ☐ including changes required by the attached Examine Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFF each sheet. Replacement sheet(s) should be labeled as such i	R 1.84(c)) should be written on the header according to 37	n the drawings in the front (not the back) of CFR 1.121(d).
DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMEN	posit of BIOLOGICAL MA	ATERIAL must be submitted. Note the
Attachment(s) 1. ⊠ Notice of References Cited (PTO-892)		of Informal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-94	Paper	w Summary (PTO-413), No./Mail Date
<ul> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/S Paper No./Mail Date 30/9-24-04</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Depose</li> </ul>		er's Amendment/Comment er's Statement of Reasons for Allowance
of Biological Material	9. ☐ Other _	S. V. Clark Primary Examiner Art Unit: 2815